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Notice of Allowability	Application No.	Applicant(s)
	10/697,889	CATALASAN ET AL.
	Examiner	Art Unit
	Douglas M. Menz	2891
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/26/07</u> .		
2. The allowed claim(s) is/are <u>1,2,4-13 and 28-31</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🗌 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	• • • • • • • • • • • • • • • • • • • •	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. Notice of Informal Pa	
	6. ☐ Interview Summary (Paper No./Mail Date	e .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/26/07 	7. Examiner's Amendm	ent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statemen	nt of Reasons for Allowance
	9. ⊠ Other <u>Supplemental</u>	Search History.
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DETAILED ACTION

Allowable Subject Matter

Claims 1-2, 4-13 and 28-31 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1-2 and 4-13, there is no teaching or suggestion in the art of record disclosing a method of making a programmable memory cell for storing a value, comprising the step of forming a one cycle ladder structure that traverses the plurality of metal layers from a bottom metal layer to a top metal layer and back to the bottom metal layer using first and second metal interconnect structures as in accordance with the limitations of claim 1. Therefore, independent claim 1 is deemed allowable along with its dependent claims 2 and 4-13.

Regarding claims 28-29, there is no teaching or suggestion in the art of record disclosing a method of making a programmable memory cell for storing a value, comprising the step of forming a one cycle ladder structure in the shape of a cube using multiples of first and second metal interconnect structures that traverses the plurality of metal layers from a bottom metal layer to a top metal layer and back to the bottom metal layer as in accordance with the limitations of claim 28. Therefore, independent claim 28 is deemed allowable along with its dependent claim 29.

Regarding claims 30-31, there is no teaching or suggestion in the art of record disclosing a method of making a programmable memory cell for storing a value,

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comprising the step of forming a one cycle ladder structure in the shape of a spiral that traverses the plurality of metal layers from a bottom metal layer to a top metal layer and back to the bottom metal as in accordance with the limitations of claim 30. Therefore, independent claim 30 is deemed allowable along with its dependent claim 31.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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DOUGLAS M. MENZ PRIMARY PATENT EXAMINER

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.